

In Class Problem #1

I have just shown you how to calculate the hash of the string "abcaa" using the ACM hash function. Your job is to tell me, *in hexadecimal* the ACM hash of the string "abcaap". The ASCII value of 'P' is 0x50.

Here is the permutation table, in case you'd like a copy for yourself:

Permutation Table		Second hex digit															
First hex digit		0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0	01	57	31	0c	b0	b2	66	a6	79	c1	06	54	f9	e6	2c	a3
	1	0e	c5	d5	b5	a1	55	da	50	40	ef	18	e2	ec	8e	26	c8
	2	6e	b1	68	67	8d	fd	ff	32	4d	65	51	12	2d	60	1f	de
	3	19	6b	be	46	56	ed	f0	22	48	f2	14	d6	f4	e3	95	eb
	4	61	ea	39	16	3c	fa	52	af	d0	05	7f	c7	6f	3e	87	f8
	5	ae	a9	d3	3a	42	9a	6a	c3	f5	ab	11	bb	b6	b3	00	f3
	6	84	38	94	4b	80	85	9e	64	82	7e	5b	0d	99	f6	d8	db
	7	77	44	df	4e	53	58	c9	63	7a	0b	5c	20	88	72	34	0a
	8	8a	1e	30	b7	9c	23	3d	1a	8f	4a	fb	5e	81	a2	3f	98
	9	aa	07	73	a7	f1	ce	03	96	37	3b	97	dc	5a	35	17	83
	a	7d	ad	0f	ee	4f	5f	59	10	69	89	e1	e0	d9	a0	25	7b
	b	76	49	02	9d	2e	74	09	91	86	e4	cf	d4	ca	d7	45	e5
	c	1b	bc	43	7c	a8	fc	2a	04	1d	6c	15	f7	13	cd	27	cb
	d	e9	28	ba	93	c6	c0	9b	21	a4	bf	62	cc	a5	b4	75	4c
	e	8c	24	d2	ac	29	36	9f	08	b9	e8	71	c4	e7	2f	92	78
	f	33	41	1c	90	fe	dd	5d	bd	c2	8b	70	2b	47	6d	b8	d1

Here is also some detail to help you:

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h_0 = 0x60
h_1 = 0x63
h_2 = 0x62
h_3 = 0x60
h_4 = 0xe5
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